

## **TRADE DESCRIPTIONS**

**AIR CONDITIONING EQUIPMENT MECHANIC** - Installs, repairs, and maintains commercial and marine refrigeration and air conditioning equipment and systems.

**ELECTRICIAN** - Installs, repairs, maintains, manufactures, and tests temporary power systems for industrial and Navy vessels. Installs, tests, repairs, and maintains electrical systems, fire alarms, and security systems according to National Electric Code.

**ELECTRONIC MEASUREMENT EQUIPMENT MECHANIC** - Inspects, troubleshoots, repairs, overhauls, modifies, tests and calibrates a wide range of complex electrical/electronic/electromechanical instruments and equipment.

**ELECTRONICS MECHANIC** - Inspects, troubleshoots, repairs, test, overhauls, modifies, and calibrates physical and electrical/electronic and electromechanical shipboard instrumentation used to measure and indicate and/or regulate parameters such as voltage, current, power, temperature, and pressure.

**FABRIC WORKER** - Lays out, fabricates, repairs, and installs awnings, canopies, and protective coverings of all types for use on ship decks, hatches, shipboard ordinance, machinery and electronic equipment.

**HEAVY MOBILE EQUIPMENT MECHANIC** - Troubleshoots to determine causes of mechanical operation problems, traces and locates defects, makes repairs or replaces parts such as fuel injectors, cylinder heads, piston and liners, piston rings, engine bearings, and crankshafts.

**INSULATOR** - Installs, removes, repairs, and manufactures insulation for the purposes of heat transfer prevention, condensation prevention, sound dampening, and radiation shielding.

**MACHINIST** – Operates a variety of machines, and repairs ship's components. Using lathes, mills, grinders, etc., parts are repaired or manufactured within close tolerances.

**MARINE MACHINERY MECHANIC** - Removes, repairs, reinstalls the major propulsion, auxiliary, and weapons systems aboard ships.

**METALS INSPECTOR** - Performs non-destructive testing (NDT) of welds and various components of naval ships and submarines. This involves using Visual, Liquid Penetrant, Magnetic Particle, Eddy Current, Radiography, and Ultrasonic-testing methods to inspect work accomplished by welders, shipfitters, pipefitters, and machinists. These inspection methods are also used on existing shipboard components to determine repair or replacement due to wear and fatigue.

**PAINTER** - Apply paints, coatings, and coverings for functional, decorative, or protective purposes aboard ships and in shop areas.

**PLASTIC FABRICATOR** – Designs and fabricates templates, patterns, wooden molds and form blocks of various geometric shapes and sizes used in the forming of Plexiglas, fiberglass, and various plastic and rubber items.

**PIPEFITTER** - Removes, repairs, reinstalls the major propulsion, auxiliary and weapons systems. Manufactures, installs, repairs, maintains, and removes all dockside to shipyard temporary piping services.

**PRODUCTION MACHINERY MECHANIC** – Installs, overhauls, and repairs various types of precision hydraulic, balancing machines. Manufactures simple replacement parts using lathes, shapers, boring and milling machines.

**RIGGER** - Uses chainfalls, blocks, tackles, winches, cranes, and other mechanical devices to safely move items ranging from a few pounds to those weighing hundreds of tons, usually from or to areas within Navy vessels.

**SHEET METAL MECHANIC** - Designs, manufactures, installs, and repairs ventilation, furniture, lightweight bulkheads, and doors on Navy vessels.

**SHIPFITTER** - Manufactures, installs, removes, and repairs structural assemblies varying in size from less than one hundred pounds to over 40 tons.

**SHIPWRIGHT** - Utilizes transits and levels to establish working lines and reference points, checks vessel alignment during docking evolution, and constructs precise docking blocks on which the vessel sits while in dry dock.

**WELDER** - Join metals using complex thermal processes in the overhaul, repair, and construction of Navy vessels.